

FOCS HW16

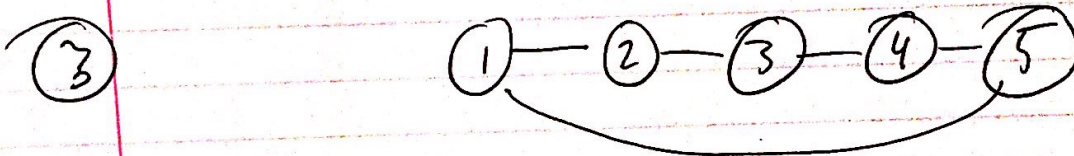
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① i) b ii) a iii) d iv) c

② a, d have cycles:

a): 1-2-3-4-1 d): 1-5-2-1

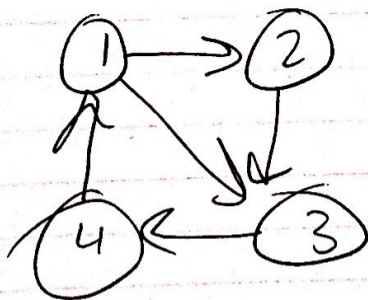
④ ~~Ba~~ $G = [1, 2, 3, 4, 5, 6]$
 $E = [(1, 2), (1, 3), (1, 4), (2, 3), (3, 4), (3, 5), (4, 5)]$



⑤ i) a ii) c iii) b

⑥ a, c

⑦



Nope.

⑧ $V: [1, 2, 3, 4]$
 $E: [(1, 2), (2, 4), (3, 1), (3, 2), (3, 4)]$

⑨

	1	2	3	4
1	0	1	0	0
2	0	0	0	1
3	1	1	0	1
4	0	0	0	0